IN THE CLAIMS

(currently amended) [[A]] An immunogenic composition comprising two or more
of the following components wherein each component consists of a substantially
pure gonococcal antigens selected from the group consisting of: (1) an Outer
Membrane Protein A (OmpA) protein; (2) an Outer Membrane Protein H (OmpH)
protein; (3) a peptidyl-prolyl cis/trans isomerase (PPlase) protein; (4) an ngs41
protein; (5) an ngs117 protein; and (6) an adhesion penetration protein (App)
protein.

wherein the OmpA protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:2,

wherein the OmpH protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:3,

wherein the PPlase protein comprises an amino acid sequence having 70% or more identity to SEO ID NO:4.

wherein the ngs41 protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:5.

wherein the ngs117 protein comprises an amino acid sequence having 70% or more identity to SEO ID NO:6; and

wherein the App protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:7.

(currently amended) The <u>immunogenic</u> composition of claim 1, <u>comprising an</u>
 <u>OmpA protein</u>, wherein the OmpA protein comprises an amino acid sequence: (8)

having 70% or more identity to SEQ ID NO:2; and/or (b) which is a fragment of at least 10 consecutive amino acids of SEQ ID NO:2.

- (withdrawn-currently amended) The <u>immunogenic</u> composition of claim 1, <u>comprising an OmpH protein</u>, wherein the OmpH protein comprises an amino acid sequence: (a) having 70% or more identity to SEQ ID NO:3; and/or (b) which is a fragment of at least 10 consecutive amino acids of SEQ ID NO:3.
- (currently amended) The <u>immunogenic</u> composition of claim 1, <u>comprising a</u>
 <u>PPlase protein</u>, wherein the PPlase protein comprises an amino acid sequence: (a)
 having 70% or more identity to SEQ ID NO: 4; and/or (b) which is a fragment of
 at least 10 consecutive amino acids of SEQ ID NO:4.
- (withdrawn-currently amended) The immunogenic composition of claim 1, comprising an Ngs41 protein, wherein the Ngs41 protein comprises an amino acid sequence: (a) having 70% or more identity to SEQ ID NO:5; and/or (b) which is a fragment of at least 10 consecutive amino acids of SEQ ID NO:5.
- 6. (withdrawn-currently amended) The <u>immunogenic</u> composition of claim 1, <u>comprising an Ngs117 protein</u>, wherein the Ngs117 protein comprises an amino acid sequence; (a) having 70% or more identity to SEQ ID NO:6; and/or (b) which is a fragment of at least 10 consecutive amino acids of SEQ ID NO:6.

- (withdrawn-currently amended) The <u>immunogenic</u> composition of claim 1, <u>comprising an App protein</u>, wherein the App protein comprises an amino acid sequence: (a) having 70% or more identity to SEQ ID NO: 7; and/or (b) which is a fragment of at least 10 consecutive amino acids of SEO ID NO: 7.
- 8. (withdrawn) A hybrid polypeptide of formula NH2-A-{-X-L-}_n-B-COOH, wherein: each X is an amino acid sequence as defined in any one of claims 2 to 7; L is an optional linker amino acid sequence; A is an optional N terminal amino acid sequence; B is an optional C terminal amino acid sequence; and n is 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 14 or 15.
- 9. (withdrawn) Nucleic acid encoding the hybrid polypeptide of claim 8.
- 10. (withdrawn) A lipidated gonococcal OmpA protein.
- 11. (withdrawn) A lipidated gonococcal PPIase protein.
- 12. (withdrawn) A dimeric gonococcal OmpH protein.
- 13. (withdrawn) A dimeric gonococcal PPlase protein.
- (withdrawn) A gonococcus strain, wherein one or more of the following gonococcal antigens is knocked out: (1) OmpA; (2) OmpH; (3) PPlase; (4) ngs41;

(5) ngs117; and (6) App.

 (new) An immunogenic composition, comprising an OmpA protein and a PPIase protein,

wherein the OmpA protein comprises an amino acid sequence having 70% or more identity to SEO ID NO:2; and

wherein the PPlase protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:4.

19. (new) The immunogenic composition of claim 18

wherein the OmpA protein comprises an amino acid sequence having 80% or more identity to SEQ ID NO:2; and

wherein the PPIase protein comprises an amino acid sequence having 80% or more identity to SEQ ID NO:4.

20. (new) The immunogenic composition of claim 18

wherein the OmpA protein comprises an amino acid sequence having 90% or more identity to SEQ ID NO:2; and

wherein the PPIase protein comprises an amino acid sequence having 90% or more identity to SEQ ID NO:4.

(new) The immunogenic composition of claim 18
 wherein the OmpA protein comprises an amino acid sequence having 95%

or more identity to SEQ ID NO:2; and

wherein the PPIase protein comprises an amino acid sequence having 95% or more identity to SEQ ID NO:4.

22. (new) The immunogenic composition of claim 18

wherein the OmpA protein comprises the amino acid sequence shown in SEQ ID NO:2; and

wherein the PPIase protein comprises the amino acid sequence shown in SEQ ID NO:4.